



# PUBLIC NOTICE

**File Number: NRS 09.164**

**Notice Date:  
July 29, 2009**

**Expiration Date:  
August 28, 2009**

Pursuant to Chapter 1200-4-7 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit (this also includes §401 Water Quality Certifications). This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

**APPLICANT:** Tennessee Department of Transportation  
Attn: Anthony Myers  
Environmental Division  
Suite 900, J.K. Polk Building  
505 Deaderick Street  
Nashville, TN 37243  
615-532-9945

**LOCATION:** The proposed alterations are located along the existing alignment of SR-15 (US-64) from Old Highway 64 to Murphy Hollow / Little Forty-Eight Creek Road in Wayne County.

**PROJECT DESCRIPTION / PURPOSE:** The applicant plans to widen SR-15 for public safety and use. In order to accommodate the road widening the applicant proposes the following impacts.

Site #U1, STR-1, 35.3337°N / -87.6875°W

Proposed: Install a 6 in. gas line with concrete cap

Site #1, STR-3, STR-4 and WTL-1, 35.3351°N / -87.6852°W

-STR-2-

Existing: 145 ft. of open stream

Proposed: 145 ft. of 24" reinforced concrete pipe (RCP)

-STR-4-

Existing: 260 ft. of open stream

Proposed: 260 ft. of elimination due to roadway fill

-WTL-1-

Proposed: 0.28 ac. of permanent fill and 0.07 ac. of temporary impact

-Mitigation-

The 260 ft. of stream loss would be mitigated onsite by restoring a section of Furnace Branch. The permanent filling of wetland would be mitigated by debiting, at a 4:1 ratio, 1.12 ac. of available wetland credits from the Coffee county Wetland Mitigation Bank.

Site #2, STR-2, STR-5, STR-6, STR-7 and SPG-1, 35.3356°N / -87.6844°W

-STR5-

Existing: 70 ft. of 6 ft. x 3 ft. reinforced concrete box culvert (RCBC)

Proposed: Remove existing culvert and construct 172 ft. of 6 ft. x 3 ft. of RCBC with 20 ft. of riprap-lined channel at the outlet. Associated impact is the installation of a 6 in. gas line.

-STR-6 & SPG-1-

Existing: 655 ft. of stream including existing culverts for private drives

Proposed: A total of 96 ft. of private driveway crossings (includes endwalls) and 559 ft. of constructed channel. Associated impact is the installation of a 6 in. gas line with a concrete cap.

-STR-7-

Existing: 112 ft. of two barrel (6' x 10.5' barrels) box culvert and 398 ft. of open stream

Proposed: Extend the existing 112 ft. box culvert by 111 ft. and relocate 285 ft. of stream as transition into extended culvert

Mitigation: The 222 ft. of the culvert would be mitigated by restoring a section of Furnace Branch. The 2 ft. of stream loss and remaining 1 ft. of culvert would be mitigated by payment to the Tennessee Stream Mitigation Program in the amount of \$600.00.

-STR-2-

Existing: 101 ft. of two barrel (6' x 8.5' barrels) RCBC

Proposed: extend the existing 101 ft. RCBC by 82 ft. with 20 ft. of riprap-lined channel at the outlet

Site #3, STR-8 & SEP-1, 35.3372°N / -87.6791°W

Existing: 72 ft. of 54 in. RCP with 965 ft. of open stream at inlet and 35 ft. at outlet

Proposed: Relocate the existing stream into 1,120 ft of constructed channel that consists of 888 ft. of open channel at inlet, 32 ft. of culvert for private drive, 172 ft. of 54 in. RCP with 8 ft. of endwall and 20 ft. of open channel at outlet. Associated impact is the installation of a 6 in. gas line with concrete cap.

Mitigation: The 212 ft. of culverting would be mitigated by payment to the TSMP in the amount of \$42,400.00.

Site #4, STR-9 & SEP-2, 35.3393°N / -87.6748°W

Existing: 905 ft. of open stream, 15 ft. of CMP for private drive and 117 ft. of 6 ft. x 5 ft. box culvert

Proposed: Relocate the existing stream into 736 ft. of open channel (70 ft. is riprap lined), a total of 124 ft. of private drive culverts and 80 ft. of extension to the existing 117 ft. of box culvert. A spring box would be installed to capture the flow from SEP-2. Associated impact is the installation of a 6 in. gas line with concrete cap. Two outfall structures would be installed on STR- 7 (Furnace Branch) across the proposed road from STR-9.

Mitigation: The 321 ft. of culverting would be mitigated by payment to the TSMP in the amount of \$64,200.00. The riprap lined channel would be mitigated by payment to the TSMP in the amount of \$10,600.00 (70 ft. x 0.75).

Site #5, STR-11, 35.3441°N / -87.6622°W

Existing: 3-span concrete bridge (to remain)

Proposed: Additional 3-span concrete bridge with riprap around one of the piers

Site #6, WTL-3 & SEP-3, 35.3429°N / -87.6561°W

Proposed: 0.03 ac. of permanent fill and 0.37 ac. of temporary impacts. Graded rock would be installed over SEP-3 to maintain flow into WTL-3

Mitigation: The permanent filling of wetland would be mitigated by debiting, at a 4:1 ratio, 0.12 ac. of available wetland credits from the Coffee county Wetland Mitigation Bank.

Site #7, STR-12A & SPG-2, 35.3419°N / -87.6543°W

Existing: 210 ft. of 30 in. pipe

Proposed: 125 ft. of existing pipe to remain plus the installation of a spring box and 84 ft. of 30 in. pipe.

Site #8, STR-13, 35.3417°N / -87.6517°W

Existing: 113 ft. of 24 in. RCP

Proposed: 108 ft. of existing RCP to remain plus the extension of the RCP by 66 ft. and 8 ft. of endwall at outlet. A retaining wall would be constructed at inlet to prevent further impacts to the stream.

Site #9, STR-14, 35.411°N / -87.6488°W

Existing: 136 ft. of 36 in. RCP

Proposed: extend existing 136 ft. of RCP by 56 ft.

Site #10, WTL-4, 35.3411°N / -87.6488

Proposed: 0.04 ac. of permanent fill and 0.08 ac. of temporary impact

Mitigation: The permanent filling of wetland would be mitigated by debiting, at a 4:1 ratio, 0.16 ac. of available wetland credits from the Coffee county Wetland Mitigation Bank.

Site #11, STR-15 & WTL-5, 35.3403°N / -87.6473°W

-STR-15-

Existing: 143 ft. of 30 in. RCP

Proposed: extend the existing 143 ft. of RCP by 68 ft. with 8 ft. of endwall at outlet

Mitigation: The 219 ft. of culverting would be mitigated by the restoration of a segment of Furnace Branch.

-WTL-5-

Proposed: 0.09 ac. of permanent fill and 0.06 ac. of temporary impact

Mitigation: The permanent filling of wetland would be mitigated by debiting, at a 4:1 ratio, 0.36 ac. of available wetland credits from the Coffee county Wetland Mitigation Bank.

Site #12, STR-16, 35.3384°N / -87.6453°W

Existing: 215 ft. of 48 in. CMP / 6 ft. x 4 ft. RCBC

Proposed: extend the existing structure by 72 ft. of 48 in CMP

Mitigation: The 72 ft. of extension would be mitigated by the restoration of a segment of Furnace Branch.

Site #13, STR-17, SPG-3 & STR\_18, 35.330°N / -87.6302°W

-STR-7-

Existing: 304 ft. of 48 in. x 54 in. arch concrete pipe

Proposed: extend the existing 304 of pipe by 44 ft.

Mitigation: The 44 ft. of extension would be mitigated by payment to the TSMP in the amount of \$8,800.00.

STR-18 & SPG-3-

Proposed: 48 ft. of stream fill over spring and stream due to roadway fill

#### Furnace Branch Restoration

The applicant proposes to restore 1,160 ft. of Furnace Branch for the impacts to ETWs.

The additional mitigation footage would be used to mitigate other impacts on this project.

**DEGRADATION:** In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activities on STR-8, 9 and 17 will result in degradation to water quality. The impacts to STR-4, 7, 15 and 16 are being mitigated in system and are therefore considered de minimis. More details on the proposal can be viewed on the Internet at <http://www.state.tn.us/environment/wpc/ppo/arap>.

**WATERSHED / WATERBODY DESCRIPTION:** The proposed alterations are located in the Buffalo River watershed (HUC 06040004). The Buffalo River watershed covers approximately 763 square miles and empties into the Duck River. More information on the watershed can be found at <http://www.state.tn.us/environment/wpc/watershed/wsmplans/buffalo/>.

A total of 17 streams, 6 springs/seeps, and 4 wetlands would be impacted by the proposed alterations. The stream names and corresponding stream numbers are listed below. Please note that UNT stands for unnamed tributary.

STR-2 = UNT Furnace Branch

STR-3 = UNT Furnace Branch

STR-4 = UNT Furnace Branch

STR-5 = UNT Furnace Branch

STR-6 = UNT Furnace Branch

STR-7 = Furnace Branch

STR-8 = UNT Furnace Branch

STR-9 = UNT Furnace Branch

STR-18 = UNT Fall Branch

STR-10 = UNT Fortyeight Creek

STR-11 = Fortyeight Creek

STR-12 = UNT Fortyeight Creek

STR-13 = UNT Fortyeight Creek

STR-14 = UNT Fortyeight Creek

STR-15 = UNT Fortyeight Creek

STR-16 = UNT Fortyeight Creek

STR-17 = Fall Branch

Streams #11, #12, #12A, #13, #14, #15 and #16 have been assessed as being Exceptional Tennessee Waters. Also the portion of Furnace Branch south of SR-15 is ETW. Fortyeight Creek has been assessed as fully supporting its classified uses. Fortyeight Creek and all other streams on the project have the following classified uses, fish and aquatic life, recreation, livestock watering and wildlife, and irrigation. None of the other streams have been assessed to determine if they are supporting their classified uses.

**PERMIT COORDINATOR:** Trent Thomas

**FACTORS CONSIDERED:** In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

**COMMENTING:** Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the department's address listed below and to the attention of the permit coordinator.

**PUBLIC HEARING:** Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

**FILE REVIEW:** The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation  
Division of Water Pollution Control, Natural Resources Section  
7th Floor L & C Annex  
401 Church Street  
Nashville, TN 37243









Approximate location of resources and proposed impacts (yellow indicates that the stream is ETW)